

SELF-EMITTING ELEMENT AND MANUFACTURING METHOD OF THE SAME AND ILLUMINATING DEVICE AND TWO-DIMENSIONAL DISPLAY DEVICE

Patent number: JP2001085738
Publication date: 2001-03-30
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Classification:
 - **international:** H01L33/00
 - **European:**
Application number: JP19990257583 19990910
Priority number(s):

Abstract of JP2001085738

PROBLEM TO BE SOLVED: To provide a self-emitting element for improving the light-emitting efficiency.

SOLUTION: In this self-emitting element 4, a layer (GaN) 2 brought into contact with a light emitting layer, a light-emitting layer 1, a p side GaN 19, and a p electrode 3 are formed on a sapphire substrate 6. Lights, generated from the light-emitting layer 1, are emitted through the layer (GaN) 2 brought into contact with the light emitting layer to the direction of the sapphire substrate 6. In this case, the p electrode 3 is made of metal and provided with a reflecting function. Also, the side face of the layer (GaN) 2 brought into contact with the light emitting layer is shaped, so as to open in the direction in which lights are emitted. Moreover, at least one part of the side face of the layer (GaN) 2, brought into contact with the light emitting layer, is shaped so that lights from the light emitting layer 1 can be totally reflected.

